

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/006162

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12Q1/60, 1/26, 1/28, 1/44, G01N33/92

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12Q1/60, 1/26, 1/28, 1/44, G01N33/92

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2005
Kokai Jitsuyo Shinan Koho	1971-2005	Toroku Jitsuyo Shinan Koho	1994-2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

JICST FILE (JOIS), EUROPAT (QUESTEL), MEDLINE/BIOSIS/WPIDS (STN)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 00/73797 A2 (THE GOVERNMENT OF THE UNITED STATES OF AMERICA), 07 December, 2000 (07.12.00), & JP 2003-501630 A & EP 1183535 A1	1-13
A	US 5925534 A (Wako Pure Chemical Industries, Ltd.), 20 July, 1999 (20.07.99), & JP 2000-060600 A & EP 0964249 A2	1-13
A	JP 2001-124780 A1 (Showa Denko Kabushiki Kaisha), 11 May, 2001 (11.05.01), (Family: none)	1-13

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- "X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

- "Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

- "&" document member of the same patent family

Date of the actual completion of the international search
02 May, 2005 (02.05.05)Date of mailing of the international search report
24 May, 2005 (24.05.05)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97/45553 A1 (Daiichi Pure Chemicals Co., Ltd.), 04 December, 1997 (04.12.97), & JP 09-313200 A & EP 0913484 A1 & US 6057118 A	1-13
A	WO 98/47005 A1 (Denka Seiken Kabushiki Kaisha), 22 October, 1998 (22.10.98), & JP 11-318496 A & EP 0990904 A1 & US 6194164 B1	1-13
A	JP 2001-224397 A1 (Denka Seiken Kabushiki Kaisha), 21 August, 2001 (21.08.01), (Family: none)	1-13
A	WO 00/017388 A1 (Kyowa Medex Co., Ltd.), 30 March, 2000 (30.03.00), & EP 1114870 A1	1-13
A	Hiroshi MATSUI, "LDL-Cholesterol to So-Cholesterol no Multi Teiryoho", Japanese Journal of Clinical Laboratory Automation, August 2003, 28(4), page 380	1-13
A	Takashi KANNO, "Koshikessho LDL-Cholesterol no Chokusetsu Sokuteiho", Current Therapy, 16(1), 1998, p.146-50	1-13
A	Takashi MATSUI, "Atarashii LDL Cholesterol Chokusetsuho Shiyaku (LDL-EX) no Kaihatsu", Seibutsu Shiryo Bunseki, 21(5), 1998, 361-6	1-13

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: 1, 2, 4-10 and 12, specifically parts thereof because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

See extra sheet.

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims: it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.

No protest accompanied the payment of additional search fees.

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Continuation of Box No. II-2. of continuation of first sheet (2)

Claims 1, 2, 4-10 and 12:

With respect to the method of these claims comprising the first step of treating lipoproteins other than low-density lipoprotein in a biosample and the second step of treating remaining low-density lipoprotein, only the method whose practical utility is proved in Examples, etc. is the following. The method comprises the first step of causing cholesterol esterase and cholesterol oxidase to act on lipoproteins other than low-density lipoprotein in a biosample in the presence of a surfactant capable of acting on lipoproteins other than low-density lipoprotein to thereby generate hydrogen peroxide and the second step of causing cholesterol esterase and cholesterol oxidase to act on low-density lipoprotein in the biosample in the presence of at least a surfactant capable of acting on low-density lipoprotein. What other methods are applicable is unclear. Therefore, the inventions of these claims cannot be stated as being fully supported by the description and are not clearly and fully disclosed to such an extent that experts of the technical field to which the inventions pertain cannot carry out the inventions.

With respect to the inventions not fully supported by the description and not clearly and fully disclosed in the description as aforementioned, no search has been carried out.